

PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing
(day/month/year)

Applicant's or agent's file reference

399-S05P1158

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2005/015260

International filing date (day/month/year)

23.08.2005

Priority date (day/month/year)

02.09.2004

International Patent Classification (IPC) or both national classification and IPC

Applicant

FeliCa Networks, Inc.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/015260

Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language
_____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2005/015260

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	1-7	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-7	NO
Industrial applicability (IA)	Claims	1-7	YES
	Claims		NO
2. Citations and explanations:			
<p>Document 1: JP, 2004-151750, A (Sony Corp.), 27 May, 2004 (27.05.04)</p> <p>Document 2: JP, 2002-353852, A (Sharp Corp.), 6 December, 2002 (06.12.02)</p> <p>Document 3: JP, 11-215026, A (Toshiba Corp.), 6 August, 1999 (06.08.99)</p> <p>The subject matters of claims 1-7 do not appear to involve an inventive step in view of documents 1-3 cited in the ISR.</p> <p>Document 1 describes a semiconductor integrated circuit wherein a first antenna (antenna (21)) which has a non-contact IC card function and a wireless reader/writer function for the non-contact IC card, and makes communication with the approached non-contact IC card or the wireless reader/writer for the approached non-contact IC card is connected. The semiconductor integrated circuit comprises; a first demodulation means (a receiving data acquisition part (25)) demodulating a first receiving signal which is received through the first antenna and transmitted from the wireless reader/writer; a second demodulation means (a receiving data acquisition part (54)) demodulating a second receiving signal transmitted from the non-contact IC card; a rectifier circuit (22) smoothing a half-wave rectification of the first receiving signal; a regulator receiving the output of the rectifier circuit (22); a parasitic diode bridge circuit (71) smoothing a full-wave rectification of the second receiving signal; a first transmission means (a transmission data supply part (26); a modulation circuit (23)) which transmits a first transmission signal to the wireless reader/writer by a load modulation through the first antenna; a second transmission means (a transmission data supply part (53); and an antenna drive circuit (51)) which transmits a second transmission signal to the non-contact IC card by a differential output through the first antenna (paragraphs 22-65, Figs. 1-13).</p> <p>Document 2 describes that demodulation is performed by one demodulation means (a multi-function demodulator) instead of demodulating by using separate demodulator in a wireless communication unit (paragraph 86, Fig. 4).</p> <p>Document 3 describes that a full-wave rectification circuit is used in a non-battery operated wireless card (paragraphs 4 and 23, Figs. 2 and 5).</p> <p>Since it is a well-known technique to a person skilled in the art to use the full-wave rectifier circuit in the non battery-operated wireless card as described in document 3, it is not considered to be difficult to make the invention regarding claims 1-7 by applying the technique of demodulating by one demodulation means to the invention described in document 1, instead of demodulating by a separate demodulator described in document 2. And making the constitution of the invention described in document 1 be the constitution having a demodulation means commonly using the non-contact IC card function and the wireless reader/writer function for the non-contact IC card at the rear stage of the full-wave rectification means.</p>			